

APPARATUS TO IMPROVE STABILITY OF AN MRAM OVER PROCESS AND
OPERATIONAL VARIATIONS

ABSTRACT OF THE DISCLOSURE

An apparatus for improving stability of a magnetoresistive random access memory
5 over process and operational variations includes a current reference circuit that provides a
reference current control signal to variable analog control circuitry. The variable analog
control circuitry is connected to receive control signals from the current reference. The
variable analog control circuitry generates a word current reference signal in response to the
reference current control signal and further generates a source current reference signal in
10 response to the reference current control signal. At least one word current source is connected
to receive the word current reference signal. At least one sense current source is connected to
receive the source current reference signal.